

SONY®

BETACAM D-1 INTERFACE

BK-75A

INSTRUCTION MANUAL

Revised 1

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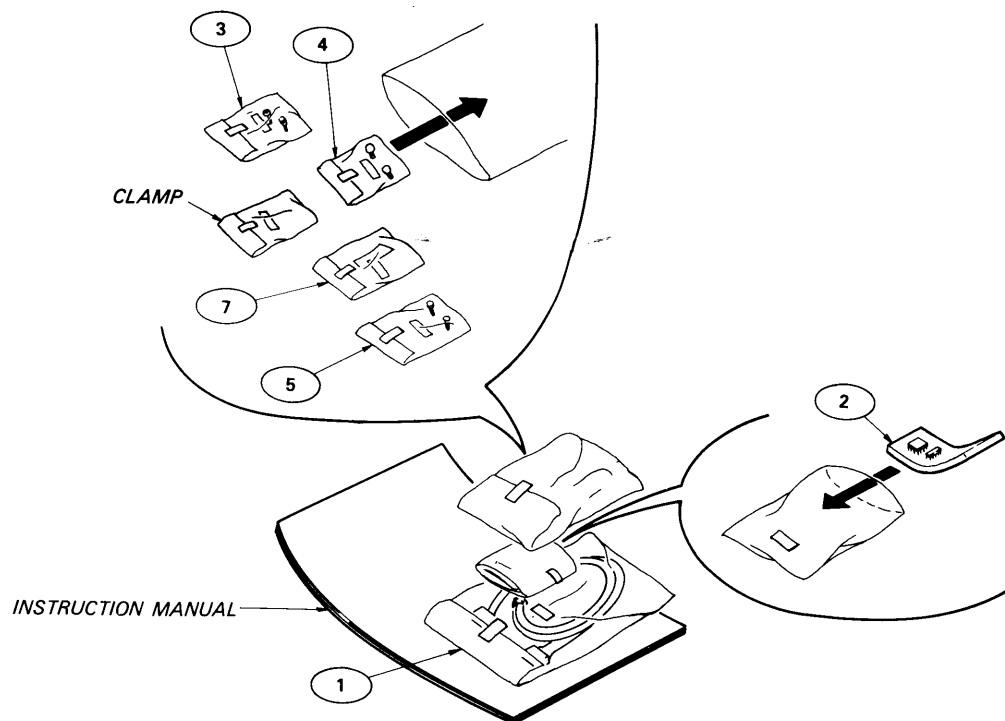
Install the BK-75A to PAL or SECAM unit of Betacam SP series VTR for providing the parallel component digital video interface complied with CCIR REC. 656 which enables the component digital video signal interface between Betacam SP VTR and SONY D-1 VTR.

I. BK-75A APPLICABLE UNIT SERIAL NO.

BVW-60P	10713 and higher
BVW-65P	10770 and higher
BVW-70P	10771 and higher
BVW-75P	12548 and higher
BVW-70S	10131 and higher
BVW-75S	10065 and higher

II. CONSTITUTION

. BK-75A is constituted as follows.



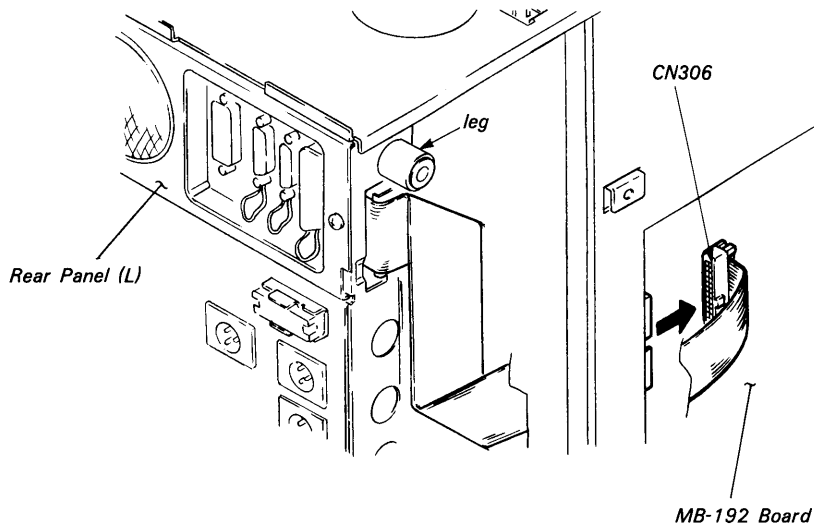
No.	Parts No.	SP	Description
1	1-574-622-11	o	CABLE ASS'Y
2	8-759-722-91	s	MB7122H-TBC12PS-02
	8-759-937-27	s	CXB1001G
3	2-133-531-01	o	SCREW, CONNECTOR
4	3-673-910-00	o	SCREW, CONNECTOR
5	3-722-732-01	s	SCREW, SLIDE LOCK
7	2-133-530-01	o	LABEL (DIGITAL)

III. HOW TO INSTALL THE BK-75A

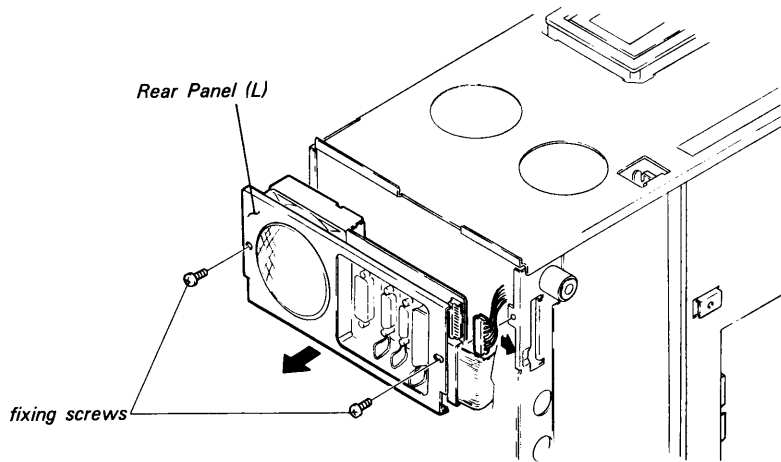
The names of printed circuit boards in this manual are described for BVW-75P. For other units are as follows.

BVW-75P/70P	BVW-60P/65P	BVW-75S/70S
CP-111	CP-111	CP-111
DM-56P	DM-56P	DM-56P
EN-48P	EN-48P	EN-73
MB-192	MB-192	MB-192
RM-57	RM-57	RM-57
TBC-7D	TBC-7D	TBC-7D
TBC-9P	TBC-9P	TBC-11
TBC-12P	TBC-12P	TBC-12S
VO-18P	VO-18AP	VO-22

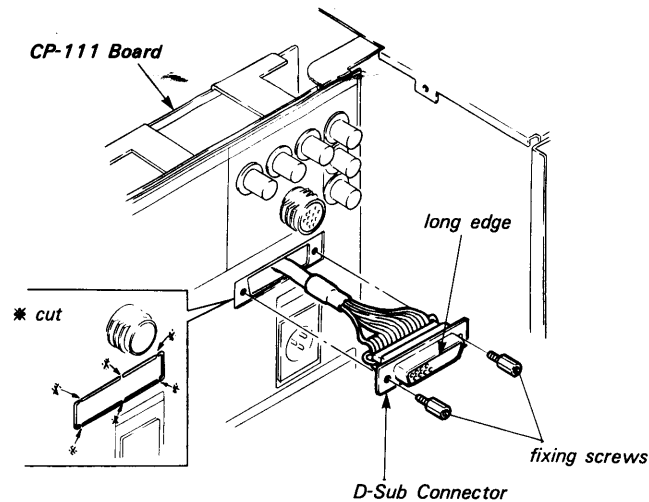
1. Remove the two fixing screws and remove the Upper Lid. Remove the four fixing screws and remove the cabinet (left).
2. Remove the TBC-9P, EN-48P, VO-18P, DM-56P, TBC-7D, TBC-12P Boards from the unit.
3. Put the unit so that the right side will be bottom. Remove the six fixing screws and then remove the Bottom Plate.
4. Disconnect the CN306 on the MB-192 Board.



5. Remove the two fixing screws of the Rear Panel (L).
6. Disconnect the CN451 on the RM-57 Board and remove the Rear Panel (L).
7. Put the unit back so that the four legs will be bottom.



8. Cut the Ornamental Panel with a cutting plier and make a hole for D-sub connector.
9. Remove the two fixing screws and open the Connector Panel.
10. Remove the six fixing screws and open the CP-111 Board.
11. Pass the multi cable through the hole of the Connector Panel as shown in the figure.



12. Apply locking compound to the top of the screws and install the D-sub connector to the Connector Panel with fixing screws.

(NOTE) There are three kinds of screws. Check the way of connector lock and use one of them.

. slide lock type



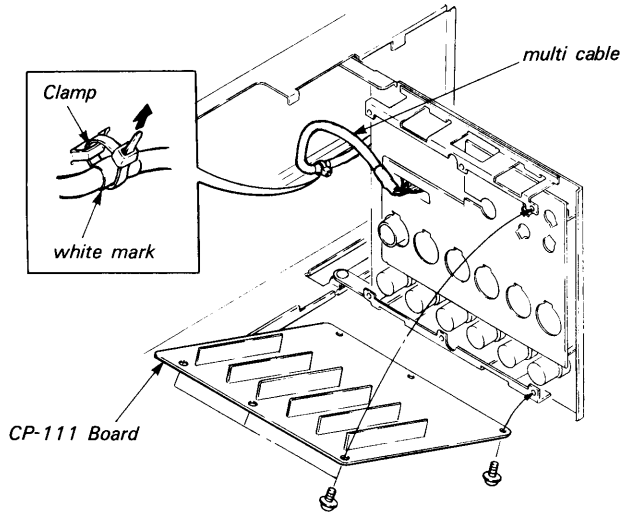
. screw lock type
(inch screw 4-40 UNC)



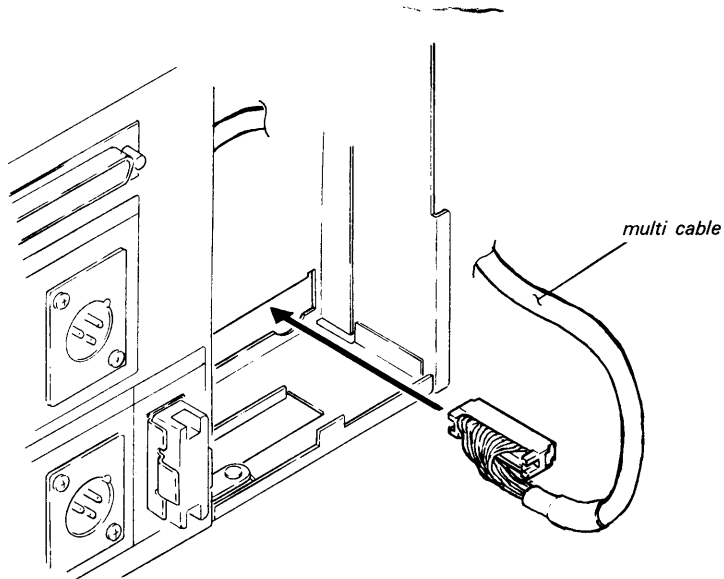
. screw lock type
(meter screw M2.5)



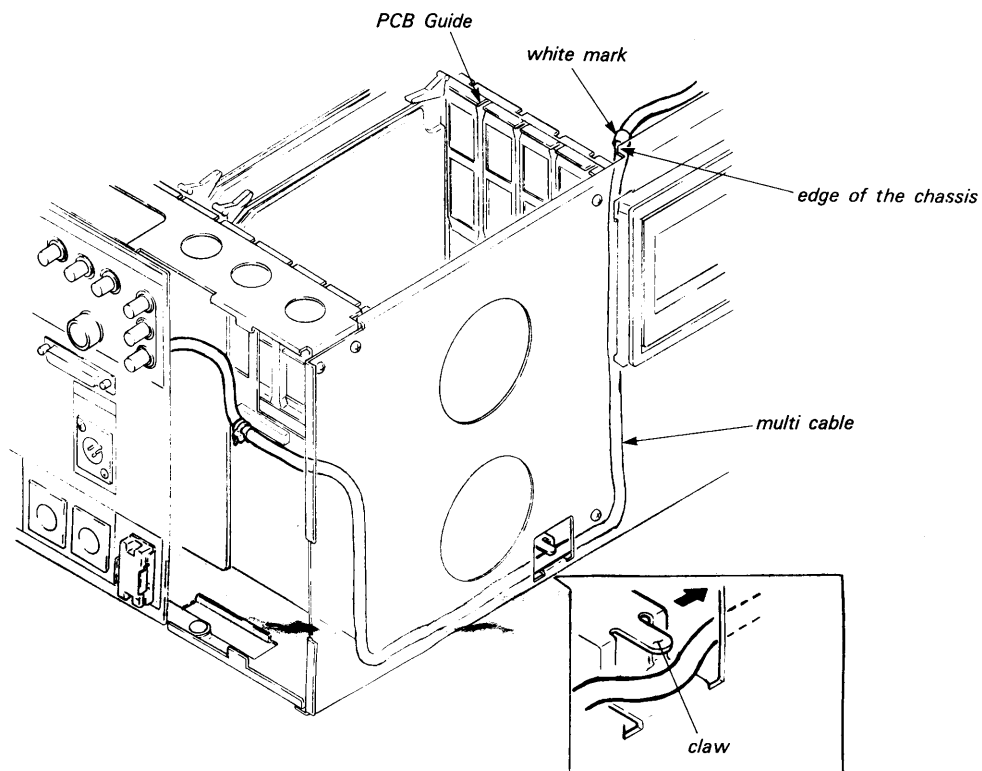
13. Locate the multi cable as shown in the figure and install the CP-111 Board. Note that the leads of the PC Board are not pinched by chassis.
14. Fix the white mark portion of the multi cable to the chassis with a clamp.



15. Pass the multi cable through the hole of the chassis. (Form the connector as shown in the figure and it is easy to pass the hole.)

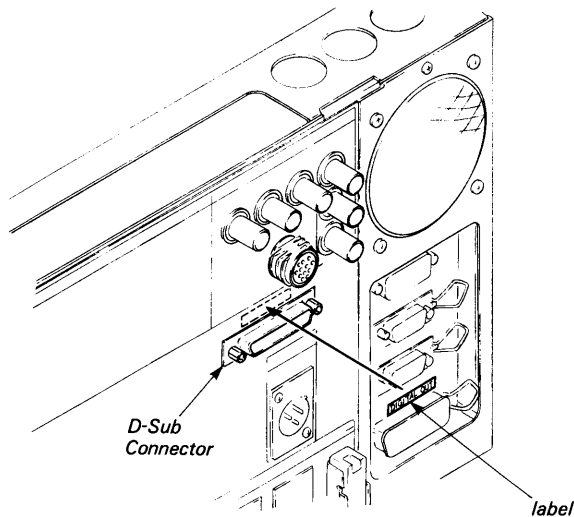


16. Slacken the multi cable and then pull it in the direction of the arrow. Put the multi cable under the claw of the chassis.
17. Put the multi cable between PCB Guide and chassis while putting the white mark portion of the cable to the edge of the chassis. Locate the slack of the cable as shown in the figure.



18. Put the unit so that the right side will be bottom.
19. Pass the flat cable of the Rear Panel (L) through the hole of the chassis.
20. Connect the CN451 on the RM-57 Board and install the Rear Panel (L) with two fixing screws. Note that the multi cable is not pinched by Rear Panel (L).
21. Connect the CN306 on the MB-192 Board.
22. Install the bottom plate with six fixing screws.
23. Put the unit back so that the four legs will be bottom.
24. Install the Connector Panel with two fixing screws.

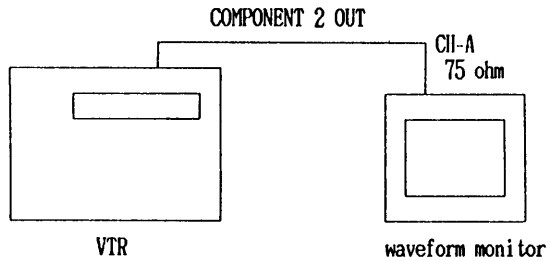
25. Stick a "DIGITAL OUT" label as shown in the figure.



26. Install the cabinet (left) with four fixing screws.
27. Mount the IC808 and IC809 on the TBC-12P Board. (IC808 and IC809 are contained in the BK-75A.)
28. Install the TBC-9P, EN-48P, VO-18P, DM-56P, TBC-12P Boards to the unit.
29. Perform the adjustments of the TBC-7D and TBC-12P Boards. (Refer to electrical adjustment.)
30. After adjustment, install the TBC-7D Board.
31. Put the multi cable between TBC-12P Board and chassis. Connect the CN800 of the multi cable on the TBC-12P Board.
32. Install the Upper Lid.

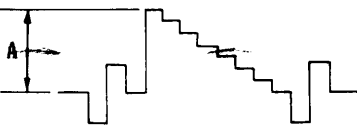
IV. ELECTRICAL ADJUSTMENT

- Extension board (EX-151)
- Oscilloscope
- Waveform monitor
- Alignment tape (CR5-1BPS)

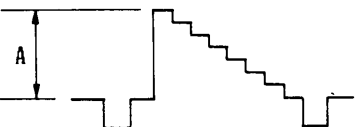


- Extend the TBC-7D or the TBC-12P Board with an extension board.

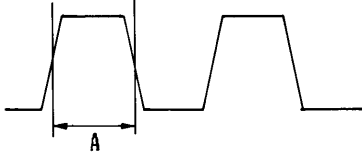
1. Y-AD IN LEVEL ADJUSTMENT

unit conditions for adjustment	spec.	adjustment
.Playback the color-bar segment of alignment tape CR5-1BPS.	TP101/TBC-7D (G-2)  $A = 1.71 \pm 0.05 \text{ Vp-p}$	RV100/TBC-7D (F-2)

2. Y-COMPONENT 2 OUT LEVEL ADJUSTMENT

unit conditions for adjustment	spec.	adjustment
.Playback the color-bar segment of alignment tape CR5-1BPS.	COMPONENT 2 Y OUT (terminated in 75 ohm)  $A = 0.7 \pm 0.01 \text{ Vp-p}$	RV200/TBC-12P (E-1)

3. CLOCK DUTY ADJUSTMENT

unit conditions for adjustment	spec.	adjustment
.EE mode .Do not connect the multi cable to CN800.	TP802/TBC-12P (G-2) E101  A = 18.5 ± 3 ns	CV701/NR-32 (C-3)

ADDITIONAL INFORMATION

Connector Contact Assignment

CONTACT	ASSIGNMENT	CONTACT	ASSIGNMENT
1	Clock	14	Clock return
2	System ground	15	System ground
3	Data 7 (MSB)	16	Data 7 return
4	Data 6	17	Data 6 return
5	Data 5	18	Data 5 return
6	Data 4	19	Data 4 return
7	Data 3	20	Data 3 return
8	Data 2	21	Data 2 return
9	Data 1	22	Data 1 return
10	Data 0	23	Data 0 return
11	—	24	—
12	—	25	—
13	Chassis ground		

